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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/834,946	04/16/2001	Isao Hirose	Q63660	5342
7590 08/09/2005 SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20037			EXAMINER	
			NGUYEN, JIMMY T	
			ART UNIT	PAPER NUMBER
,			3725	

DATE MAILED: 08/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

· ·					
	Application No.	Applicant(s)			
	09/834,946	HIROSE ET AL.			
Office Action Summary	Examiner	Art Unit			
7. 444.076.5.77	Jimmy T. Nguyen	3725			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory perions after the reply within the set or extended period for reply will, by state than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a repeply within the statutory minimum of thirty and will expire SIX (6) MONT ute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 26	January 2004.				
2a) ☐ This action is FINAL . 2b) ☑ Th	This action is FINAL . 2b)⊠ This action is non-final.				
closed in accordance with the practice under	r Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9)⊠ The specification is objected to by the Exami	ner.				
10)⊠ The drawing(s) filed on <u>30 April 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I	. • • • • • • • • • • • • • • • • • • •				
	Examiner. Note the attached	Office Action of form P10-192.			
Priority under 35 U.S.C. § 119					
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. * See the attached detailed Office action for a list	nts have been received. nts have been received in Ap iority documents have been re eau (PCT Rule 17.2(a)).	plication No eceived in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Su Paper No(s)/	mmary (PTO-413) Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06 Paper No(s)/Mail Date 4/30/03&1/26/04.		ormal Patent Application (PTO-152)			

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Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 26, 2004 has been entered.

Drawings

The proposed drawings filed on April 30, 2003 has been acknowledged and approved.

The proposed drawings overcome the drawing objections noted in the last Office action.

Specification

The amendment filed April 30, 2003 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows:

Regarding claim 1, lines 1 –2 and claim 5, lines 3-4, the original specification does not provide any support for "a set of calender rollers comprising at least three rolling rollers and one feed roller". The specification does not disclose that any of the rollers 1-4 are the feed roller. If the Applicant refers to a roller (22) as the feed roller, this roller (22) is not part of the set of the calender rollers. Furthermore, the specification does not disclose that any of the rollers in figure 1 and 2 is a "feed roller".

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Applicant is required to cancel the new matter in the reply to this Office Action.

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Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claim 1 and 5, see similar discussion in the objection to the specification above regarding the new matter.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, line 5, it is unclear whether "a pair of nip rollers" are the same rollers as the rolling rollers as claimed in line 1. If they are the same rollers, it is suggested that the claim should clearly defines the relationship between these rollers; for example: "said at least

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three rolling rollers includes a pair of nip rollers, said nip portion is formed between said pair of nip rollers, said pair of nip rollers including a holding roller for ...".

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Regarding claim 1, line 6, it is unclear whether "a center roller" as claimed is the same roller as the "holding roller" as claimed in line 5. The specification discloses that the holding roller is the center roller (page 9, line 21). If they are the same roller, it is suggested that the limitation "a center roller" be changed to --- said holding roller ---. Additionally, there is no antecedent basis for "said nip portion of a center roll" in the claim.

Regarding claim 5, line 4, it is unclear whether "a pair of nip rollers" are the same rollers as the rolling rollers as claimed in line 3. If they are the same rollers, it is suggested that the claim should clearly defines the relationship between these rollers; for example: "said at least three rolling rollers includes a pair of nip rollers, said nip portion is formed between said pair of nip rollers, said pair of nip rollers including a holding roller for ...".

Regarding claim 5, line 5, it is unclear whether "a center roller" as claimed is the same roller as the "holding roller" as claimed in line 4. The specification discloses that the holding roller is the center roller (page 9, line 21). If they are the same roller, it is suggested that the limitation "a center roller" be changed to --- said holding roller ---. Additionally, there is no antecedent basis for "said nip portion of a center roll" in the claim.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 5, 7, and 9-10, as best understood are rejected under 35 U.S.C. 102(b) as being anticipated by British Celanese Limited (hereinafter"BCL") (GB 456, 377).

Regarding claims 1 and 5, BCL disclose an apparatus and a method for producing a laminated sheet comprising a set of calender rollers having at least three rollers (15, 16, and 19), the at least three rollers including a pair of nip rollers (16, 19) forming a nip portion (at element (33) in fig. 1), the pair of nip rollers including a holding roller (16) for holding a rolled plastic material sheet (17) and behind the nip portion of the holding roller, a release member (21) is arranged in proximity the holding roller, and a roller (fig. 1 and page 2, lines 111-113) is arranged at a position lower than the position of the nip portion. Note that BCL discloses in figure 1 that the laminated sheet is being pulled downward and rolled into a collecting roll (page 2, line 113); and thus, BCL inherently discloses a roller arranged at a position lower than the position of the nip portion.

BCL discloses the steps of rolling a plastic material (12) into the plastic material sheet (17); laminating the plastic material sheet onto a base material sheet (18) at the nip portion, the resulting laminated sheet is coated with the plastic material and is being pressed being the heat rollers (16, 19); therefore, the resulting laminated sheet inherently held on the holding roller to the position of the releasing member. BCL further discloses the step of releasing a layer of the

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plastic material sheet (by the releasing member) from the holding roller by curling it toward the direction of the collecting roller.

Regarding claims 3 and 7, the releasing member is a doctor knife (page 2, lines 74-75).

Regarding claims 9-10, the plastic material is a pressure sensitive adhesive, which is a rubber based pressure sensitive adhesive (page 2, lines 1-53).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over BCL in view of Borgstrom (USPN 6,325,878). BCL discloses the release member. BCL does not disclose the release member is heated. However, Borgstrom teaches a release member (15) that is heated to a temperature at 50 degree or more (see column 9, lines 40-48) to release a gluing material off an applicator roller (11). Therefore, it would have been obvious to one having ordinary skilled in the art the time the invention was made to provide BCL's releasing member with a heating element, as taught by Borgstrom, in order to improve the releasing of the material off the holding roller.

Claims 4, 8 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over BCL in view of Gerhardt (USPN 5,601,868).

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Regarding claims 4 and 8, BCL discloses the doctor knife. BCL does not disclose the doctor knife is vibrated. However, Gerhardt, in a relate laminating art, teaches an oscillating doctor knife (1) that is vibrated by a pressure controlled actuator (14) to remove any deposit off a roller (2) (column 2, line 40 – column 3, line 35). Therefore, it would have been obvious to one having ordinary skilled in the art the time the invention was made to provide BCL's doctor knife with a vibrating device, as taught by Gerhardt, in order to eliminate streak-causing deposits between the doctor knife and the sheet (column 1, lines 44-47).

Regarding claim 12, BCL, as modified by Gerhardt, discloses the vibrating is carried out using an air cylinder (col. 2, lines 53-54).

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over BCL and Borgstrom, in further view of Nordstrom et al. (hereinafter "Nordstrom") (US 2,375,812).

BCL as modified by Borgstrom, discloses the heated release member. BCL does not disclose the specific heating device for heating the releasing member is a band heater. However, the patent to Nordstrom teaches a release member (22) is being heated with a band heater (46-49) in order to maintain the release member at a desirable elevated temperature (page 2, right column, lines 1-5). Therefore, it would have been obvious to one having ordinary skilled in the art the time the invention was made to provide BCL with the type of heating element such as a band heater, as taught by Nordstrom, in order to maintain the release member at a desirable elevated temperature.

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Response to Arguments

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Applicant's arguments filed April 30, 2003 have been considered but are moot in view of

the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jimmy T. Nguyen whose telephone number is (571) 272-4520.

The examiner can normally be reached on Mon-Thur 8:00am - 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Derris Banks can be reached on (571) 272-4419. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JTNguyen August 4, 2005

DERRIS H. BANKS

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700